CLAIMS

What is claimed is:

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1. wireless (WLAN) providing wireless local area network for

telecommunications services to a multi-mode mobile station, said multi-mode mobile station

being able to wirelessly communicate with a wireless wide area network (WWAN) when

operating in a first wireless coverage area, said WWAN including a first data register that

contains a first data record for said multi-mode mobile station, said WLAN comprising:

at least one wireless access point providing a second wireless coverage area, said multi-

mode mobile station being able to wirelessly communicate with said at least one wireless access

point when said multi-mode mobile station operates in said second wireless coverage area;

a private branch exchange (PBX) communicatively coupled to said at least one wireless

access point; and

a second data register communicatively coupled to said PBX and to said first data

register, said second data register being able to transmit at least one mobility management

message to said first data register, whereby said at least one mobility management message

facilitates roaming between said first and second wireless coverage areas by said multi-mode

mobile station.

2. The WLAN of claim 1, wherein said second data register is integrated with said

PBX.

3. The WLAN of claim 1, wherein said PBX is communicatively coupled to a

packet-switched network.

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The WLAN of claim 1, wherein said PBX is communicatively coupled to a 4.

circuit-switched telephone network.

5. The WLAN of claim 1, wherein said second data register stores a second data

record for said multi-mode mobile station when said multi-mode mobile station operates in said

second wireless coverage area.

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6. The WLAN of claim 1, wherein said at least one mobility management message

includes a registration message that said second data register sends to said first data register

when said multi-mode mobile station operates in said wireless coverage area, said registration

message identifying said multi-mode mobile station.

7. The WLAN of claim 1, wherein said at least one mobility management message

includes a routing message, said routing message including routing information to route a call to

said multi-mode mobile station.

8. The WLAN of claim 7, wherein said routing information includes a directory

number associated with said PBX.

9. The WLAN of claim 7, wherein said routing information includes a directory

number associated with a media gateway communicatively coupled to said WLAN via a packet-

switched network.

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10. The WLAN of claim 7, wherein said routing information includes an Internet Protocol (IP) address of said PBX.

11. The WLAN of claim 7, wherein said routing information includes an Internet

Protocol (IP) address of said multi-mode mobile station.

12. A method of mobility management of a multi-mode mobile station, said multi-

mode mobile station being able to wirelessly communicate with a wireless wide area network

(WWAN) and with a wireless local area network (WLAN), said method comprising:

said multi-mode mobile station associating with a wireless access point of said WLAN;

a private branch exchange (PBX), communicatively coupled to said wireless access point,

storing information regarding said multi-mode mobile station in a WLAN data register; and

said WLAN data register sending a registration message to a WWAN data register in said

WWAN, said registration message identifying said multi-mode mobile station.

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13. The method of claim 12, further comprising:

said PBX receiving a service registration message from said multi-mode mobile station,

said service registration message identifying said multi-mode mobile station; and

said PBX sending a registration notification message to said WLAN data register, said

registration notification message identifying said multi-mode mobile station.

14. The method of claim 13, further comprising:

said WLAN data register storing a data record for said multi-mode mobile station.

15. The method of claim 12, further comprising:

said WLAN data register receiving a routing request from said WWAN; and

sending a routing message to said WWAN data register, said routing message including

routing information to route a call to said multi-mode mobile station.

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16. The method of claim 15, wherein said routing information includes a directory

number associated with said PBX.

17. The method of claim 15, wherein said routing information includes a directory

number associated with a media gateway communicatively coupled to said WLAN via a packet-

switched network.

18. The method of claim 15, wherein said routing information includes an Internet

Protocol (IP) address of said PBX.

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19. The method of claim 15, wherein said routing information includes an Internet

Protocol (IP) address of said multi-mode mobile station.

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